



MSHA's Accident Prevention Program Miner's Tip

**Safety and
Health are
Values!**

Roof Bolter Drill Boom Tip

Mine Type: Underground Coal
Category(s): Section Face Equipment, Roof & Rib

A roof bolter operator was injured when the mounting brackets for the boom lift jack failed, causing it to fall and strike him on the leg. The boom lift jack failed because some of the bolts holding the mounting brackets had loosened and the other bolts had completely fallen out. He was using the drill chuck to tighten a roof bolt, instead of a wrench. The drill chuck got caught on the roof bolt. The roof bolter operator attempted to lower the drill boom but the lift jack rose instead of the boom lowering. When the drill chuck unfastened, the lift jack was not in place to hold the boom.



- Welded extensions should not be attached to the side of the drill head.
- Use a wrench when tightening roof bolts.
- Never put yourself underneath the drill boom unless it is blocked against motion.
- Avoid pinch points, especially near the boom, ATRS and canopy.
- Conduct a pre-operational inspection of the machine to ensure the lift jack mounting brackets are in place and the bolts holding the brackets are tight.
- Conduct a pre-operational inspection check of the hydraulic hoses and fittings.
- Use personal protective equipment.

**If you have a tip you would like to pass on, you can e-mail it to
zzMSHA-MinersTips@dol.gov.**

If your tip is selected, you will receive credit in this space.

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